

PRIOR ART

FIG. 1

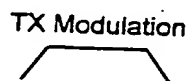


FIG. 2A

Prior Art

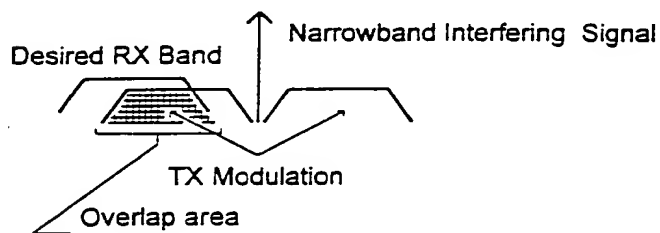


FIG. 2B

Prior Art

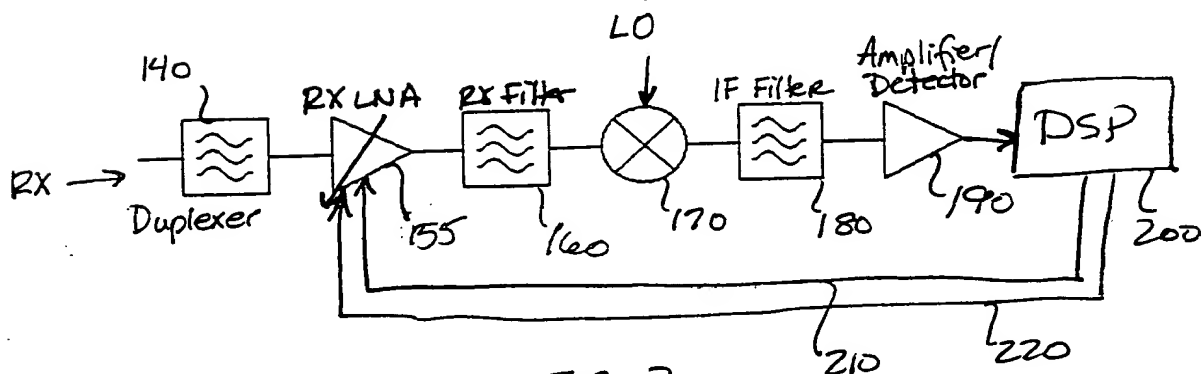


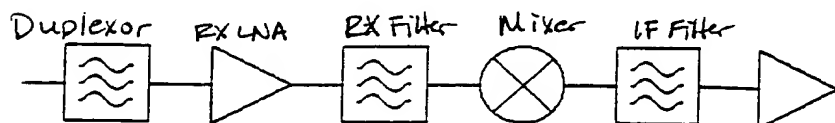
FIG. 3

FIG. 4

Title:

Version 1.10

Typical IS-95 CDMA Receiver, Operational State 1



G @ f0 in dB	-4.8	15	-3	15	-10	50
G @ f1 in dB	-4.8	15	-3	15	-45	50
G @ f2 in dB	-4.8	15	-3	15	-50	50
IPi in dBm	100	15	100	3	100	-40
NF in dB	4.8	2	3	7	10	5



System BW (kHz)	1250
Eb/No Required (dB)	4.5
Processing Gain (dB)	21.07
Traffic Ch. Offset (dB)	-15.60



Calculated System Parameters

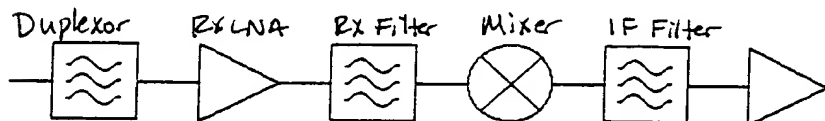
System NF	= 7.65 dB
System IPi	= -5.00 dBm
Sensitivity	= -106.32 dBm
System Gain	= 62.2 dB

FIG. 5A

Title:

Version 1.10

Typical IS-95 CDMA Receiver, Operational State 2



G @ f0 in dB	-4.8	15	-3	15	-10	50
G @ f1 in dB	-4.8	15	-3	15	-45	50
G @ f2 in dB	-4.8	15	-3	15	-50	50
IPi in dBm	100	5	100	3	100	-40
NF in dB	4.8	2	3	7	10	5



System BW (kHz)	1250
Eb/No Required (dB)	4.5
Processing Gain (dB)	21.07
Traffic Ch. Offset (dB)	-15.60



Calculated System Parameters

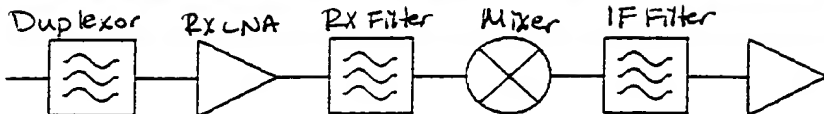
System NF	= 7.65 dB
System IPi	= -5.13 dBm
Sensitivity	= -106.32 dBm
System Gain	= 62.2 dB

FIG. 5B

Title:

Version 1.10

Typical IS-95 CDMA Receiver, Operational State 3



G @ f0 in dB	-4.8	-5	-3	15	-10	50
G @ f1 in dB	-4.8	-5	-3	15	-45	50
G @ f2 in dB	-4.8	-5	-3	15	-50	50
IPI in dBm	100	5	100	3	100	-40
NF in dB	4.8	22	3	7	10	5



System BW (kHz)	1250
Eb/No Required (dB)	4.5
Processing Gain (dB)	21.07
Traffic Ch. Offset (dB)	-15.60

Calculated System Parameters

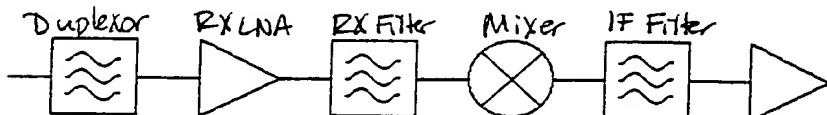
System NF	= 27.6 dB
System IPI	= 8.65 dBm
Sensitivity	= -86.323 dBm
System Gain	= 42.2 dB

FIG. 5C

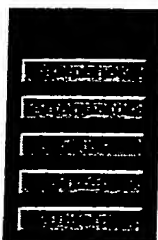
Title:

Version 1.10

Typical IS-95 CDMA Receiver, Operational State 4



G @ f0 in dB	-4.8	-5	-3	15	-10	50
G @ f1 in dB	-4.8	-5	-3	15	-45	50
G @ f2 in dB	-4.8	-5	-3	15	-50	50
IPI in dBm	100	15	100	3	100	-40
NF in dB	4.8	22	3	7	10	5



System BW (kHz)	1250
Eb/No Required (dB)	4.5
Processing Gain (dB)	21.07
Traffic Ch. Offset (dB)	-15.60

Calculated System Parameters

System NF	= 27.6 dB
System IPI	= 13.7 dBm
Sensitivity	= -86.323 dBm
System Gain	= 42.2 dB

FIG. 5D